TABLE 3.—Late seismological reports. (Instrumental)—Concluded.

Date.	Charac- ter.	Phase.	Time.	Period T.	Ampl	itude.	Dis- tance.	Remarks.	-
					A.	A.M		!	

Massachusetts. Cambridge. Harvard University Seismographic Station.

[J. B. Woodworth temporarily absent. Records interpreted and measured by the $U,\,S,\,Weather\,Bureau.]$

Lat., 42° 22' 36" N.; long., 71° 06' 59" W. Elevation, 5.4 meters. Foundation: Glacist sand over clay.

Instruments: Two Bosch-Omori 100 kg, horizontal pendulums (mechanical registration).

1916.	!	!	H. m. s.	Sec.	μ		Km.	
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	1	8	14 10 37					
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	, ;	L	14 20 22	18		J		
	, 1	F	14 50	,		; -		F in microscisms.
				•	!		1	Manus faultin manual
3	- · · · · · · · ·	eLm	6 11 30 6 22 00	:	j	1	j	Very feeble record.
	!	r	0 22 00		}		}	
15	i I	-	11 39 53		1		ί.	Sheet changed at 13b
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	i		1 .5 .5 .5	; -5	1	1		quake.
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		PR.?.	1 26 48	1		.		
	!	S	1 29 33		i			
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		sr	3 15 13 3 18 50			-	-	•
	1	cr	3 22 43	<u> </u>	4	1		
	:	F	3 50 00		1	1	• • • • • •	
	i	1	1 17 (07)		.1	.1	-,	

SEISMOLOGICAL DISPATCHES.1

Kobe, Japan, December 1, 1916.

Damage caused by the earthquake of Sunday, November 25, which was briefly reported by cable, was considerably greater than was first indicated. It was the most severe in 25 years. Some of the Japanese earthquake experts believe the disturbance was due to the subsidence of subterranean fissures below the sea bottom, off the city of Kobe. (Assoc. Press.)

San Salvador, Republic of Salvador, December 20, 1916.

A volcanic explosion near the small village of Lower Verapaz, Guatemala, has caused the death of 15 persons. (Assoc. Press.)

Unionville, Nev., December 19, 1916.

Slight earth shocks were felt here on December 17th, 6:45 a. m. and on December 18th, 9 p. m., Parific time. (Local observer.)

Redding, Cal., December 25, 1916.

Lassen Peak was in eruption to-day, emitting a great pillar of smoke. (Assoc. Press.)

Redding, Col., December 28, 1916.

Two great pillars of smoke and steam poured from Lassen Peak to-day, rising almost vertically from the main crater and reaching an estimated height of 2.000 feet. The other smoke streamer from a smaller vent was about half as high. (Assoc. Press.)

EARTHQUAKES FELT IN THE UNITED STATES DURING 1916.

By W. J. HUMPHREYS, Professor in Charge.

[Dated: Weather Bureau, Washington, D. C., Feb. 3, 1917.]

During 1916, 131 earthquakes strong enough to be felt were reported from different parts of the continental United States, as listed in the accompanying Table 1 and graphically represented (a dot for each report) on chart XI at the end of this issue of the REVIEW.

On February 21, a quake of intensity VI (Rossi-Forel), occurred near Asheville, N. C., that was reported from seven States. For further details see this Review March, 1916, 44; 154; also Taber in the Bulletin of the

Seismological Society of America, v. 6, p. 218.
On May 12 a quake of intensity VII, occurred near Boise, Idaho.

On October 18 a quake of intensity VII, occurred near Birmingham, Ala., that was reported from eight States. This is discussed in some detail by Finch and Hopkins

in this issue of the Review, p. 690-693.

None of these, however, did much damage; merely shook down some plaster, toppled over a few chimneys,

and the like.

A few quakes of moderate intensities, V-VI, occurred in California, but none of them did any appreciable damage. A discussion by A. H. Palmer of the California earthquakes will appear in an early number of the Bulletin of the Seismological Society of America.

TABLE 1 .- Places in the United States reporting earthquakes during 1916.

[Consult also Chart XI (XLIV-153).]

ALABAMA, ARIZONA.	17 1
0,10,1	17 1
Anniston 33 39 85 50 2 Clifton 33 04 109	
Argo 33 42 86 31 2 Holbrook 34 54 110	108! 1
	52 1
Athens 34 50 86 59 1 Pinedale 34 19 110	15 1
Auburn	15 1 9 38 1 9 04 1
	04 1
	9 05 1
	947 1
Calera 33 06 86 45 1	
Camden 32 00 87 16 1 CALIFORNIA.	1
Camp Hill 32 46 85 37 1	1
Clanton 32 49 85 39 1 Arrowhead	1 -
	7 16 1
	8 22 1
	9 00 2
	6 46 1
	7 12 1
	700 4
	8 22 1 5 40 2
	9 15 1
	6 43 5
	5 28 7
Hamilton 34 07 87 58 1 Camp Baldy 34 15 11	7 40 1
	7 44 5
	6 10 1
	7 35 1
Maple Grove 34 09 85 49 1 Covelo 39 47 12	3 16 1
	8 53 1
	6 58 1
Moulton 34 30 87 18 I El Centro 32 50 11	5 32 1
	4 11 3
Omolibe 90 90 95 01 1 Followers 94 45 11	8 25 2
	9 49 1
St. Bernard 34 11 86 48 1 Gray 33 49 11	6 37
Scottsboro 34 40 86 02 1 Gray Mountain. 34 38 11	6 15 2
	1 20 4
	5 35 1
	6 12
Vernon 33 46 88 06 1 Julian 33 05 11	6 37 2
Wedowee 33 18 85 29 1 King City 36 14 12	106) 2

¹ Reported by the organization indicated and collected by the seismological station at Georgetown University. Washington, D. C.